

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An isolated mutant polypeptide comprising human papillomavirus E6 and E7 polypeptides, wherein the E7 polypeptide has mutations at any one or more of the amino acids corresponding to amino acids 24, 26 or 91 of SEQ ID NO: 14 and the E6 polypeptide has no mutations or has mutations at any one or more of the amino acids corresponding to amino acids 63 or 106 of SEQ ID NO: 13 and the mutant polypeptide retains at least approximately 30% of the immunogenicity of an isolated polypeptide comprising human wild-type papillomavirus E6 and E7.
2. (Currently Amended) The mutant polypeptide of claim 1 wherein the mutated amino acids are mutated to glycine.
3. (Currently Amended) The mutant polypeptide of claim 1 wherein the E7 polypeptide precedes the E6 polypeptide.
4. (Currently Amended) The mutant polypeptide of claim 2 wherein the E7 polypeptide precedes the E6 polypeptide.
5. (Withdrawn; Currently Amended) An isolated nucleic acid encoding the mutant polypeptide of claim 1.
6. (Withdrawn) The nucleic acid of claim 5 wherein the nucleotide sequence of E7 precedes the nucleotide sequence of E6.
7. (Withdrawn) An expression vector comprising the nucleic acid sequence of claim 5 under the control of an expression control sequence.
8. (Withdrawn) A host cell comprising the nucleic acid of claim 5.

9. (Withdrawn; Currently Amended) A host cell which expresses the mutant polypeptide of claim 1.
10. (Withdrawn) A host cell comprising the expression vector of claim 7.
11. (Currently Amended) An immunogenic composition comprising:
 - (a) the mutant polypeptide of claim 1; and
 - (b) a pharmaceutically acceptable carrier.
12. (Original) The immunogenic composition of claim 11 further comprising adjuvant.
13. (Withdrawn) An immunogenic composition comprising the nucleic acid of claim 5.
14. (Withdrawn) A recombinant virus comprising the nucleic acid of claim 5.
15. (Withdrawn) The recombinant virus of claim 14, wherein the virus is a modified Venezuelan equine encephalitis virus.
16. (Original) A method for producing an immune response in an individual, which method comprises administering to the individual the immunogenic composition of claim 11 in an amount sufficient to produce the immune response.
17. (Withdrawn) A method of treating cervical cancer, which method comprises administering to a patient diagnosed with cervical cancer the immunogenic composition according to claim 11 in an amount sufficient to produce a protective immune response.
18. (Withdrawn) A method of preventing cervical cancer, which method comprises administering to an individual the immunogenic composition of claim 11 in an amount sufficient to produce a protective immune response.

28. (New) The isolated mutant polypeptide of claim 1, wherein the E6 polypeptide has mutations at any one or more of the amino acids corresponding to amino acids 63 or 106 of SEQ ID NO: 13.